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FIRM: US Patent and Trademark Office
 FACSIMILE No.: 703-872-9306
 OUR REF.: VAST.001A
 APPLICATION No. 10/713,899
 FROM: Rabinder N. Narula
 OPERATOR: Christie Te
 DATE: July 7, 2004

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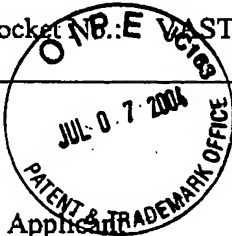
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Docket NO. E VAST.001A

Customer No.: 20,995



AMENDMENT / RESPONSE TRANSMITTAL

Applicant : David L. Hagen et al.
 App. No. : 10/713,899
 Filed : September 12, 2003
 For : DISTRIBUTED DIRECT
 FLUID CONTACTOR
 Examiner : Unknown
 Art Unit : Unknown

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(Date)

Rabinder N. Narula
 Rabinder N. Narula, Reg. No. 53,371

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing in the above-identified application are the following enclosures:

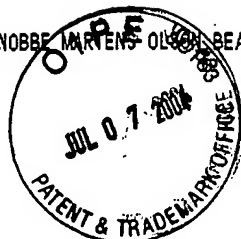
(X) Second Preliminary Amendment in 6 pages.

The fee has been calculated as shown below:

FEE CALCULATION				
FEE TYPE		FEE CODE	CALCULATION	TOTAL
Total Claims	19 - 20 = 0	1202 (\$18)	0 x 18 =	\$0
Independent Claims	3 - 3 = 0	1201 (\$86)	0 x 86 =	\$0
			TOTAL FEE DUE	\$0

Rabinder N. Narula
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Applicant : David L. Hagen et al.) Group Art Unit: Unknown
Appl. No. : 10/713,899)
Filed : September 12, 2003)
For : DISTRIBUTED DIRECT)
FLUID CONTACTOR)
Examiner : Unknown)

SECOND PRELIMINARY AMENDMENT

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

Before examination of the above-referenced application, enter the following amendments.

Amendments to the Claims are reflected in the listing of the claims which begins on page 3.

Remarks being on page 4 of this paper.